CLAIMS

What is claimed:

1	1.	A disk of an optical tester, comprising:		
2		a transparent substrate that has a first surface and an opposite second		
3	surface;			
4		a coating on said first surface of said transparent substrate, wherein a		
5	thickness of said coating is substantially inversely proportional to a refractive index			
6	said coating			
1	2.	The disk as recited in Claim 1, wherein said thickness of said coating is		
2	further subs	tantially proportional to a wavelength of light used to be in said tester.		
1	3.	The disk as recited in Claim 1, wherein said coating is transparent.		
1	4.	The disk as recited in Claim 3, wherein said transparent coating has a		
2	hardness tha	at is greater than a hardness of said transparent substrate.		
1	5.	The disk as recited in Claim 3, wherein said transparent substrate is a		
2	glass material and said transparent coating is a diamond-like-carbon material.			

1	6.	The disk as recited in Claim 5, wherein said diamond-like-carbon material	
2	is hydrogenated.		
1	7		
1	7.	The disk as recited in Claim 5, wherein said diamond-like-carbon material	
2	is nitrogenat	ed.	
1	8.	A flying height tester for a recording head of a hard disk drive,	
2	comprising:		
-	comprising.	a transportant substrate that has a first surface and an exposite	
3		a transparent substrate that has a first surface and an opposite	
4	second surface;		
5		a coating on said first surface of said transparent substrate, said	
6	coating being adjacent to the recording head, wherein a thickness of said coating		
7	is substantially inversely proportional to a refractive index of said coating;		
8		a light source that directs a beam of light through said transparent	
9	substrate and said coating and onto the recording head, wherein the beam of		
10	light i	s reflected from the recording head; and,	
11		a photodetector that detects the reflected light beam.	



9. The tester as recited in Claim 10, wherein said thickness of said coating is further substantially proportional to a wavelength of said light.

1	10.	The tester as recited in Claim 8, wherein said coating is transparent.		
1	11.	The tester as recited in Claim 10, wherein said transparent coating has a		
2	hardness tha	at is greater than a hardness of said transparent substrate.		
1	12.	The tester as recited in Claim 10, wherein said transparent substrate is a glass		
2	material anc	l said transparent coating is a diamond-like-carbon material.		
1	13.	The tester as recited in Claim 12, wherein said diamond-like-carbon		
2	material is h	ydrogenated.		
1	14.	The tester as recited in Claim 12, wherein said diamond-like-carbon		
2	material is n	itrogenated.		
1	15.	A process for providing a disk for an optical tester, comprising:		
2		providing a transparent substrate that has a first surface and an opposite		
3	second surface;			
4		attaching a layer on said first surface of said transparent substrate,		
5	wherein a th	wherein a thickness of said layer is substantially inversely proportional to a refractive		
6	index of said	index of said layer.		

1	16.	The process as recited in Claim 15, wherein said thickness of said layer is		
2	further subs	stantially proportional to a wavelength of light used in said tester.		
1	17.	The process recited in Claim 15, wherein said layer is transparent.		
1	18.	The process as recited in Claim 15, wherein said transparent layer has a		
2	hardness that is greater than a hardness of said transparent substrate.			
1	19.	The process as recited in Claim 18, wherein said transparent substrate is a		
	glass material and said transparent layer is a diamond-like-carbon material.			
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1	20.	The process as recited in Claim 19, wherein said diamond-like-carbon		
2	material is hydrogenated.			
1	21.	The process as recited in Claim 20, wherein said diamond-like-carbon		
2	material is r	nitrogenated.		